

## Some Medically Important Fungi and Their Common Synonyms and Names of Uncertain Application

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This list of medically important fungi is neither complete nor exhaustive. Because of the nature of taxonomy and classification approaches, the treatment of the various names included in this list will not necessarily reflect the opinion of each authority on mycology. The names selected for inclusion in this list represent fungi that are important to clinicians and microbiologists in clinical microbiology laboratories.

Fungus Name in Current Use	Synonym or Name of Uncertain Application	Fungus Name in Current Use	Synonym or Name of Uncertain Application
<i>Absidia corymbifera</i>	<i>Absidia ramosa</i> <i>Mucor corymbifer</i>	<i>Aspergillus glaucus</i>	<i>Aspergillus glaucus</i> group For anamorph of <i>Eurotium herbariorum</i>
<i>Acremonium</i> species	<i>Cephalosporium</i> species	<i>Aspergillus reptans</i>	<i>Aspergillus glaucus</i> group For anamorph of <i>Eurotium repens</i>
<i>Acremonium falciforme</i>	<i>Cephalosporium falciforme</i>	<i>Aspergillus thermomutatus</i>	<i>Aspergillus fischeri</i> var. <i>thermomutatus</i> For anamorph of <i>Neosartorya pseudofischeri</i>
<i>Acremonium kiliense</i>	<i>Cephalosporium granulomatis</i> <i>Cephalosporium infestans</i> <i>Cephalosporium madurae</i>	<i>Aspergillus vitis</i>	<i>Aspergillus glaucus</i> group For anamorph of <i>Eurotium amstelodami</i>
<i>Acremonium recifei</i>	<i>Cephalosporium recifei</i>	<i>Aureobasidium pullulans</i>	<i>Dematium pullulans</i>
<i>Ajellomyces capsulatus</i>	<i>Emmonsia capsulata</i>	<i>Basidiobolus ranarum</i>	<i>Basidiobolus haptosporus</i> <i>Basidiobolus heterosporus</i> <i>Basidiobolus meristosporus</i>
<i>Alternaria alternata</i>	<i>Alternaria tenuis</i>	<i>Bipolaris australiensis</i>	<i>Drechslera australiensis</i> <i>Helminthosporium australiense</i>
<i>Alternaria infectoria</i>	<i>Alternaria</i> state of <i>Pleospora (Lewia) infectoria</i>	<i>Bipolaris hawaiiensis</i>	<i>Drechslera hawaiiensis</i> <i>Helminthosporium hawaiiensis</i>
<i>Aphanoascus fulvescens</i>	<i>Aphanoascus cinnabarinus</i> <i>Anixiopsis fulvescens</i> <i>Anixiopsis stercoraria</i>	<i>Bipolaris spicifera</i>	<i>Curvularia spicifera</i> <i>Drechslera spicifera</i> <i>Helminthosporium spiciferum</i>
<i>Arthroderma</i> species	<i>Nannizzia</i> species	<i>Blastoschizomyces capitatus</i>	<i>Blastoschizomyces pseudotrichosporon</i> <i>Geotrichum capitatum</i> <i>Trichosporon capitatum</i>
<i>Arthroderma borellii</i>	<i>Nannizzia borellii</i>	<i>Botryodiplodia theobromae</i>	<i>Lasiodiplodia theobromae</i>
<i>Arthroderma cajetani</i>	<i>Nannizzia cajetani</i>	<i>Candida albicans</i>	<i>Candida clausenii</i> <i>Candida langeronii</i> <i>Candida stellatoidea</i> <i>Monilia albicans</i>
<i>Arthroderma cookiellum</i>	<i>Nannizzia cookiella</i>	<i>Candida dubliniensis</i>	For some isolates identified as <i>Candida albicans</i>
<i>Arthroderma corniculatum</i>	<i>Nannizzia corniculata</i>	<i>Candida famata</i>	<i>Torulopsis candida</i>
<i>Arthroderma fulvum</i>	<i>Nannizzia fulva</i> <i>Nannizzia gypsea</i> var. <i>fulva</i>	<i>Candida glabrata</i>	<i>Torulopsis glabrata</i>
<i>Arthroderma grubyi</i>	<i>Nannizzia grubyi</i>	<i>Candida haemulonii</i>	<i>Torulopsis haemulonii</i>
<i>Arthroderma gypseum</i>	<i>Gymnoascus gypseus</i> <i>Nannizzia gypsea</i>	<i>Candida kefyr</i>	<i>Candida pseudotropicalis</i>
<i>Arthroderma incurvatum</i>	<i>Nannizzia incurvata</i>	<i>Candida tropicalis</i>	<i>Candida paratropicalis</i>
<i>Arthroderma obtusum</i>	<i>Nannizzia obtusa</i>	<i>Cerinosterus cyanescens</i>	<i>Sporothrix cyanescens</i>
<i>Arthroderma otae</i>	<i>Nannizzia otae</i>	<i>Chaetomium strumarium</i>	<i>Achaetomium strumarium</i> <i>Achaetomium cristalliferum</i>
<i>Arthroderma persicolor</i>	<i>Nannizzia quinckeani</i> <i>Nannizzia persicolor</i>		
<i>Arthroderma racemosum</i>	<i>Nannizzia racemosa</i>		
<i>Arthrographis kalrae</i>	<i>Oidiodendron kalrae</i> <i>Arthrographis langeroni</i>		
<i>Aspergillus fischerianus</i>	<i>Aspergillus fischeri</i> For anamorph of <i>Neosartorya fischeri</i>		
<i>Aspergillus fumigatus</i>	<i>Aspergillus phialiseptus</i>		

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Fungus Name in Current Use	Synonym or Name of Uncertain Application	Fungus Name in Current Use	Synonym or Name of Uncertain Application
<i>Cladophialophora bantiana</i>	<i>Cladosporium bantianum</i> <i>Cladosporium trichoides</i> <i>Cladosporium trichoides</i> var. <i>chlamydosporum</i> <i>Xylohypha bantiana</i> <i>Xylohypha emmonsii</i>	<i>Kluyveromyces marxianus</i> <i>Lacazia loboi</i>	<i>Kluyveromyces fragilis</i> <i>Blastomyces loboi</i> <i>Loboa loboi</i> <i>Paracoccidioides loboi</i>
<i>Cladophialophora boppii</i>	<i>Taeniolella boppii</i>	<i>Lecytophora hoffmannii</i>	<i>Phialophora hoffmannii</i>
<i>Cladophialophora carrionii</i>	<i>Cladophialophora ajelloi</i> <i>Cladosporium carrionii</i>	<i>Lecytophora mutabilis</i> <i>Lewia infectoria</i> <i>Malassezia furfur</i> <sup>ll</sup>	<i>Phialophora mutabilis</i> <i>Pleospora infectoria</i> <i>Cladosporium mansonii</i> <i>Pityrosporum furfur</i> <i>?Pityrosporum orbiculare</i> <i>Pityrosporum ovale</i>
<i>Cladophialophora devriesii</i>	<i>Cladosporium devriesii</i>	<i>Malassezia pachydermatis</i>	<i>Pityrosporum canis</i> <i>Pityrosporum pachydermatis</i>
<i>Cladosporium species</i>	<i>Hormodendrum species</i>	<i>Microsporum canis</i> var. <i>distortum</i> <i>Microsporum persicolor</i> <i>Mucor indicus</i> <i>Natrassia mangiferae</i> <i>Neotestudina rosatii</i>	<i>Microsporum distortum</i> <i>Trichophyton persicolor</i> <i>Mucor rouxii</i> (in part) <i>Hendersonula toruloidea</i> <i>Pseudophaeotrichum sudanense</i> <i>Zopfia rosatii</i>
<i>Conidiobolus coronatus</i>	<i>Delacroixia coronata</i> <i>Entomophthora coronata</i>	<i>Ochroconis gallopavum</i> <sup>###</sup>	<i>Diplorhino-trichum gallopavum</i> <i>Dactylaria gallopava</i> <i>Dactylaria constricta</i> var. <i>gallopava</i> <i>Ceratocystis stenoceras</i>
<i>Cryptococcus neoformans</i> var. <i>gattii</i>	<i>Cryptococcus bacillisporus</i>	<i>Ophiostoma stenoceras</i> <i>Paecilomyces lilacinus</i> <i>Phaeoacremonium parasiticum</i> <i>Phialophora americana</i> <sup>#</sup>	<i>Microsporum distortum</i> <i>Trichophyton persicolor</i> <i>Mucor rouxii</i> (in part) <i>Hendersonula toruloidea</i> <i>Pseudophaeotrichum sudanense</i> <i>Zopfia rosatii</i>
<i>Cunninghamella bertholletiae</i>	<i>Cunninghamella elegans</i> (misidentification)	<i>Pseudallescheria boydii</i>	<i>Penicillium lilacinum</i> <i>Phialophora parasitica</i> Formerly treated as a synonym of <i>Phialophora verrucosa</i>
<i>Cylindrocarpon cyanescens</i>	<i>Phialophora cyanescens</i>	<i>Pseudochaetosphaeronema larense</i> <i>Pythium insidiosum</i> <sup>**</sup>	<i>Phialophora parasitica</i> <i>Phialophora americana</i> <sup>#</sup>
<i>Cylindrocarpon lichenicola</i>	<i>Emmonsia parva</i> var. <i>crecens</i> <i>Chrysosporium parvum</i> var. <i>crecens</i>	<i>Rhizomucor pusillus</i> <i>Rhizopus arrhizus</i> <i>Rhizopus microsporus</i> var. <i>oligosporus</i> <i>Rhizopus microsporus</i> var. <i>rhizopodiformis</i> <i>Rhizopus stolonifer</i>	<i>Chaetosphaeronema larense</i> <i>Hyphomyces destruens</i> <i>Pythium destruens</i> <i>Pythium gracile</i> <i>?Ramichloridium mackenziei</i> <i>Acrotheca aquaspersa</i> <i>Ramichloridium cerophilum</i> <i>Mucor pusillus</i> <i>Rhizopus oryzae</i> <i>Rhizopus oligosporus</i>
<i>Emmonsia parva</i>	<i>Emmonsia parva</i> var. <i>parva</i> <i>Chrysosporium parvum</i> var. <i>parvum</i>	<i>Scedosporium apiospermum</i> <i>Scedosporium prolificans</i>	<i>Rhizopus rhizopodiformis</i> <i>Rhizopus nigricans</i> <i>Trichosporon inkin</i>
<i>Epidermophyton floccosum</i>	<i>Trichophyton cruris</i>	<i>Scolecobasidium constrictum</i> <i>Scolecobasidium humicola</i> <i>Scolecobasidium tshawytschae</i> <i>Scytalidium dimidiatum</i>	<i>Monosporium apiospermum</i> <i>Lomentospora prolificans</i> <i>Scedosporium inflatum</i> <i>Dactylaria constricta</i> (in part) <i>Ochroconis constricta</i> <i>Ochroconis humicola</i> <i>Ochroconis tshawytschae</i> <i>?Scytalidium hyalinum</i> <i>Scytalidium synanamorph</i> of <i>Hendersonula toruloidea</i>
<i>Exophiala castellanii</i>	<i>Exophiala jeanselmei</i> var. <i>castellanii</i> <i>Exophiala mansonii</i>	<i>Sporothrix schenckii</i> <sup>††</sup>	<i>Pythium destruens</i> <i>Pythium gracile</i> <i>?Ramichloridium mackenziei</i> <i>Acrotheca aquaspersa</i> <i>Ramichloridium cerophilum</i> <i>Mucor pusillus</i> <i>Rhizopus oryzae</i> <i>Rhizopus oligosporus</i>
<i>Exophiala jeanselmei</i>	<i>Phialophora gougerotii</i> (in part) <i>Phialophora jeanselmei</i> <i>Phaeoanellomyces elegans</i> (in part)	<i>Stenella araguata</i> <i>Trichophyton species</i> <i>Trichophyton ajelloi</i>	<i>Chaetosphaeronema larense</i> <i>Hyphomyces destruens</i> <i>Pythium destruens</i> <i>Pythium gracile</i> <i>?Ramichloridium mackenziei</i> <i>Acrotheca aquaspersa</i> <i>Ramichloridium cerophilum</i> <i>Mucor pusillus</i> <i>Rhizopus oryzae</i> <i>Rhizopus oligosporus</i>
<i>Exophiala spinifera</i>	<i>Phialophora spinifera</i> <i>Rhinocladiella spinifera</i>		<i>Sporotrichum pruinosum</i> <i>Sporotrichum pulverulentum</i> <i>Cladosporium castellanii</i> <i>Achorion species</i> <i>Microoides species</i> <i>Keratinomyces ajelloi</i>
<i>Exserohilum rostratum</i>	<i>Bipolaris halodes</i> <i>Bipolaris rostratum</i> <i>Drechslera halodes</i> <i>Drechslera longirostrata</i> <i>Drechslera rostrata</i> <i>Helminthosporium rostratum</i>		
<i>Filobasidiella neoformans</i> var. <i>bacillispora</i>	<i>Filobasidiella bacillispora</i>		
<i>Fonsecaea compacta</i>	<i>Fonsecaea compactum</i> <i>Phialophora compactum</i> <i>Rhinocladiella compactum</i>		
<i>Fonsecaea pedrosoi</i>	<i>Phialophora pedrosoi</i> <i>Rhinocladiella pedrosoi</i>		
<i>Fusarium coeruleum</i>	<i>Fusarium solani</i> var. <i>coeruleum</i>		
<i>Fusarium dimerum</i> (in part)	<i>Fusarium episphaeria</i>		
<i>Fusarium verticillioides</i> *	<i>Fusarium moniliforme</i> (in part)		
<i>Fusarium pallidroseum</i> <sup>†</sup>	<i>Fusarium semitectum</i>		
<i>Galactomyces geotrichum</i>	<i>Dipodascus geotrichum</i> <i>Endomyces geotrichum</i>		
<i>Geomyces pannorum</i>	<i>Chrysosporium pannorum</i>		
<i>Geotrichum klebahnii</i>	<i>Geotrichum penicillatum</i> <i>Trichosporon penicillatum</i>		
<i>Histoplasma capsulatum</i> var. <i>capsulatum</i> <sup>‡</sup>	<i>Histoplasma capsulatum</i>		
<i>Histoplasma capsulatum</i> var. <i>duboisii</i> <sup>‡</sup>	<i>Histoplasma duboisii</i>		
<i>Histoplasma capsulatum</i> var. <i>farcinosum</i> <sup>‡</sup>	<i>Histoplasma farciminosum</i>		
<i>Hormonema dematioides</i> <sup>§</sup>	For some isolates misidentified as <i>Aureobasidium pullulans</i>		
<i>Hortaea werneckii</i>	<i>Cladosporium werneckii</i> <i>Exophiala werneckii</i> <i>Phaeoanellomyces werneckii</i>		

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<i>Trichophyton mentagrophytes</i>	<i>Trichophyton granulare</i> <i>Trichophyton granulosum</i> <i>Trichophyton gypseum</i> <i>Trichophyton interdigitale</i> <i>Trichophyton mentagrophytes</i> var. <i>quinckeanum</i> <i>Trichophyton quinckeanum</i>	<i>Trichosporon asteroides</i>	? <i>Fissuricella filamenta</i> ? <i>Prototheca filamenta</i>
<i>Trichophyton mentagrophytes</i> var. <i>erinacei</i>	<i>Trichophyton erinacei</i>	<i>Trichosporon beigeli</i> <sup>§§</sup>	For some isolates identified as <i>Trichosporon cutaneum</i>
<i>Trichophyton krajdieni</i> <sup>†‡</sup>	<i>Trichophyton mentagrophytes</i> var. <i>nodulare</i>	<i>Trichosporon inkin</i>	<i>Fissuricella filamenta</i> <i>Sarcinomyces inkin</i>
<i>Trichophyton tonsurans</i>	<i>Trichophyton tonsurans</i> var. <i>sulphureum</i>	<i>Trichosporon mucoides</i>	For some isolates identified as <i>Trichosporon beigeli</i>
<i>Trichosporon asahii</i> <sup>§§</sup>	For some isolates identified as <i>Trichosporon beigeli</i>	<i>Trichosporon ovoides</i> <i>Wangiella dermatitidis</i> <sup>  </sup>	<i>Trichosporon beigeli</i> (in part) <i>Exophiala dermatitidis</i> <i>Fonsecaea dermatitidis</i> <i>Hormiscium dermatitidis</i> <i>Hormodendrum dermatitidis</i> <i>Phialophora dermatitidis</i>

\* It is controversial as to which name should be used. Both names apply to the same fungus. *Fusarium verticillioides* is preferred over the name *Fusarium moniliforme*, which has a broader concept, but most reports concerning infections refer to *F. moniliforme*.

† *Fusarium incarnatum* may be an earlier name for both *Fusarium pallidoroseum* and *Fusarium semitectum*.

‡ On the basis of genetic differences, it has been suggested that these represent separate species rather than varieties; however, the delimitation of the species is not clearly resolved.

§ *Hormonema dematioides* was incorrectly identified as *Aureobasidium pullulans* in some case reports.

|| On the basis of genetic and nutritional differences, the new species *Malassezia globosa*, *Malassezia obtusa*, *Malassezia restricta*, and *Malassezia slooffiae* have been described.

# *Phialophora verrucosa* and *Phialophora americana* have been considered synonyms in the past, but recent molecular studies show them to be separate species.

\*\* *Pythium insidiosum* is an oomycete that should be classified in the kingdom Chromista. If the concept of five kingdoms is used, *P. insidiosum* would be classified in the kingdom Protocista.

†† At the beginning of the 20th century, *Sporothrix schenckii* was misidentified as *Sporotrichum gougerotii*. Later, *Exophiala jeanselmei* was misidentified as *Sporotrichum gougerotii*.

‡‡ This name has been proposed but is not widely accepted.

§§ According to recent treatment of the genus *Trichosporon*, *Trichosporon beigeli* is abandoned in favor of *Trichosporon asahii*, *Trichosporon cutaneum*, *Trichosporon mucoides*, *Trichosporon ovoides*, and *Trichosporon inkin* as the etiologic agents of human infections.

||| The taxonomy of *Wangiella dermatitidis* is controversial.

### The generic disposition for this species is unclear for *Ochroconis* or *Scolecobasidium*.